

Modaser Mojadiddi

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science & Mathematical Sciences Double Major

Expected: April 2026

- **CGPA: 3.77/4.0, Dean's List Scholar:** 2021-2024
- **Relevant Coursework:** Software Engineering, System Programming, Data Structures & Analysis, Algorithm Design & Analysis, Information & Computer Security, Databases, Machine Learning, Reinforcement Learning, Neural Networks & Deep Learning

EXPERIENCE

Ontario Teachers' Pension Plan

Intern Software Engineer

May 2024 – August 2025

Toronto, Ontario, Canada

- Co-developed the in-house **AI chat** app using **Python, React, & Azure** featuring a chatbot, **RAG**, **MCP**, **LangChain agents**, extraction, and automation tools leveraging **OpenAI & Claude** adopted by **400+** employees, with **80+** daily users
- Developed a tax document extraction tool using **Python** and a self trained **Document Intelligence** model monitored using **Databrick's** integrated **MLflow** reducing manual extraction time by **100%**
- Built a controversy monitoring service for flagging incidents in holdings leveraging **OpenAI & Websearch** APIs storing data in **Snowflake** with human-in-the-loop validation **UI**, reducing manual workload by **85%**
- Created and presented POCs on **Airflow, Snowflake, AKS, and Azure OpenAI** to teams across the organization, accelerating adoption of these tools in **5+** projects
- Maintained **10+** **.NET** applications for critical business services related to **SimCorp Dimension & Charles River Development** ensuring little to no downtime and successful completions
- Developed a **Python & React AKS** app with **OAuth2.0** for portfolio managers to execute corporate action votes, improving auditing, coordination for **20+** users, and cutting manual tracking errors by **90%**

Bell Canada

Intern Software Engineer

May 2023 – August 2023

Toronto, Ontario, Canada

- Developed and maintained the official websites of Bell Media owned TV networks resulting in new features, faster and more reliable user experience using **JavaScript, Vue, CSS, AEM**
- Collaborated in refactoring and optimizing the code base for multiple Network's **Web Applications** for better performance resulting in reduction of **0.5 seconds** in website load times
- Integrated **mParticle** into our codebase to enable the tracking of analytical data, enhancing our ability to deliver an improved user experience
- Implemented automated regression testing eliminating manual testing and decreasing time by **75%** using **BDD practices, Selenium, Cucumber, Gherkin, and Java**

University of Toronto Hatchery - University Health Network

Full Stack Developer Intern

September 2022 – April 2023

Toronto, Ontario, Canada

- Developed web-pages using **JavaScript, PHP, SQL** to display new studies, research and news
- Designed and built an automated timesheet submission application, enabling team members to effortlessly submit timesheets which eliminated the need for manual intervention by intermediaries
- Produced extensive documentation to guide developers and users through newly implemented features to facilitate seamless adoption and understanding

University of Toronto

Teaching Assistant - Computer Science and Math Courses

September 2023 – December 2025

Mississauga, Ontario, Canada

- Created tutorial content and taught tutorial sections of **35+** students
- Coordinated and graded assignments for **1000+** students

PROJECTS

Recommendation Engine

Academic paper recommendation engine POC for Knowlacy (startup)

- Contributed to developing a user-activity processor with **FastAPI** to track interactions and store vector **embeddings** generated using an open source model in **Qdrant**. Designed an embedding-based recommendation algorithm and developed a database API in **Python** to streamline communication with **Neo4j** and **Qdrant**. Released microservices to **AKS** using **GitHub Actions CI/CD**

OpenFeedbackVault

A Collection of Human AI Feedback Datasets

- Co-developed an end-to-end website for human AI feedback datasets. Backend built using **Node.js & REST API**, with metadata stored in **PostgreSQL**. Deployed using **Docker** on an **Apache2** server. Additionally, created a chatbot using **Llama** integrated with a **RAG** system leveraging dataset metadata for contextual responses

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript, C, C++, C#, Rust, PHP, Bash, PERL, HTML, Go

Frameworks: Node.js, Next.js, LangChain, React, Spring, Vue, Flask, Angular, .NET, FastAPI, PyTorch, TensorFlow

Developer Tools: Git, Snowflake, Helm, Azure, Jenkins, Databricks, Airflow, Docker, Linux, GitHub Actions, AWS